PTO/SB/21 (02-04)

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(0141 77 4 1		Application Number	10/643,689
TRANSMITTAL		Filing Date	August 19, 2003	
F	FORM		First Named Inventor	WAND et al.
(to be used for all correspondence after initial filing)		Art Unit	3753	
			Examiner Name	LEO, LEONARD R.
Total Number of Pages	in This Submission	7	Attorney Docket Number	21723-0002
		ENCLO	SURES (check all that apply)	
Fee Transmittal Fo	m	☐ Drawin	g(s)	After Allowance Communication to Group
Fee Attached	,	Licensi	ing-related Papers	Appeal Communication to Board of Appeals and Interferences
Amendment / Repl	у	Petition	n	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final		Provisi	n to Convert to a ional Application	Proprietary Information
Affidavits/decla	aration(s)		of Attorney, Revocation e of Correspondence Address	Status Letter
Extension of Time	Request	Termin	nal Disclaimer	Other Enclosure(s) (please identify below):
Express Abandonment Request		Request for Refund CD, Number of CD(s)		Return Receipt Postcard; Certificate of Mailing;
Certified Copy of P	riority	Rema	irks	
Response to Missin Incomplete Applica				
Response to Missing Parts under 37 CFR 1.52 or 1.53				
	SIGNA	TURE OF	APPLICANT, ATTORNEY, O	R AGENT
Firm or Individual name	McNees Wallace & K. Scott O'Brian			
Signature	No Sust	HIYIK		
Date	January 6, 2005			
	C	ERTIFICA	TE OF TRANSMISSION/MAI	LING
I hereby certify that the Service with sufficient Alexandria, VA 22313-	t postage as first o	class mail ii	n an envelope addressed to: C	or deposited with the United States Postal ommissioner for Patents, P.O. Box 1450,
Typed or printed name	Kathy A. Şaul	ter 1	700	
Signature	1 1/1-	VA 116	South	Date January 6, 2005

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Application No.: 10/643,689
Atty. Docket No. 21723-0002

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applie	lieant: WANI		WAND et al.) Group Art Unit:	3753	
Applic	atio	n No.:	10/643,689)) Examiner:	LEO, LEONARD R.	
Filed:			August 19, 2003) Atty. Docket No.	21723-0002	
For:	PLA	ATE HEA	T EXCHANGER WITH ENF) IANCED SURFACE	FEATURES	
Comn P.O. E	nissio 3ox 1	AMENDM oner for P 1450 a, VA 223	atents			
		SUPPLI	EMENTAL INFORMATION	DISCLOSURE ST	<u>ATEMENT</u>	
SIR:						
	The	following	are included with this Infor	mation Disclosure	Statement:	
\boxtimes	A.	PTO/SB	3/08			
	В.	CERTIFICATION (37 C.F.R. 1.97(c)-before final Office Action or allowance)				
	C.	\$180.00 FEE PAYMENT (37 C.F.R. 1.97(c)-before final Office Action or allowance)				
	D.	\$180.00 PETITION, CERTIFICATION & PETITION FEE PAYMENT (37 C.F.R.1.97(d)-before issue fee payment)				
compl			gare submitted in the above CFR 1.98:	e-identified applicati	on in	
	I.	A copy of each listed U.S. Patent and U.S. Patent application publication [1.98(a)(2)(i)].				
	II.	A copy of each listed foreign patent and/or published foreign patent application. For each listed foreign patent and/or published foreign patent application [1.98(a)(2)]: a) the English language version or an English translation if not published in English, if available (see PTO-1449)[1.98(a)(3)];				

- Application No.: 10/643,689 Atty. Docket No. 21723-0002						
		b) U.S. counterpart patents or English language equivalents of the foreign patents or published foreign patent applications				
		 (see PTO-1449); and/or a concise explanation of the relevance of the listed patents, publications or other information (see PTO-1449, foreign search report or other, attached), as it is presently understood by the person signing this disclosure, since no English translation is currently available[1.98(a)(3)]. 				
	III.	A copy of each listed publication, other than published foreign				
		 applications. For each listed publication [1.98(a)(2)]: (a) an English translation, if available, when the original publication is not in the English language (see PTO-1449)[1.98(a)(3)]; 				
		(b) a concise explanation of the listed publications (see PTO-1449), as it is presently understood by the person signing this disclosure, since no English translation is currently available [1.98(a)(3)].				
	IV.	For any other listed information, a copy of the information or that portion which caused it to be listed (see PTO-1449)[1.98(a)(2)(iii)].				
	V.	Each listed U.S. Patent, Publication or other information that was previously cited by or submitted to the Office in a prior application, which application is relied upon for an earlier filing date under 35 U.S.C.§ 120 [1.98(d)].				
	VI.	Copies of each listed U.S. Patent and U.S. Patent application publication are not being submitted herewith pursuant to a waiver of 37 CFR 1.98(a)(2)(i) by the USPTO on July 11, 2003 for applications filed after June 30, 2003.				
comp	This information is submitted in the above-identified application in compliance with 37 C.F.R.1.97 because:					
	1.	This information disclosure is submitted within three months of the filing date of the application, or before the mailing date of the first office action on the merits of the application [1.97(b)].				
	2.	This information disclosure is submitted before the mailing date of a final action in this application under 1.113[1.97(c)] and the requisite statement or fee is provided (see items 6 or 7 below).				

This information disclosure is submitted before the mailing date of a notice П 3. of allowance under 1.311 [1.97(c)] and the requisite statement or fee is provided (see items 6 or 7 below). This information disclosure is submitted after the mailing date of a final 4. action under 1.113 [1.97(d)] and the requisite statement and fee is provided (see items 6 and 8 below). This information disclosure is submitted after the mailing date of a notice 5. of allowance under 1.311, but before the payment of the issue fee [1.97(d)] and the requisite statement and fee is provided (see items 6 and 8 below). This information disclosure statement is submitted with the statement 6. required for items 2, 3, 4 or 5 above [1.97(c), (d), (e)]: I, K. Scott O'Brian, hereby state the following: X Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. \boxtimes No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this information disclosure was known to any individual designated in 1.56(c) more than three months prior to the filing of this information disclosure statement. This information disclosure statement is submitted with the fee of \$180 set 7. forth in 1.17(p) [see items 2 and 3 above]. Please charge this fee and any other fees associated with this application to Deposit Account No. 50-1059. (Please note, no fee is required for items 2 and 3 above if the Item 6 statement is provided).

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8. Please charge this fee and any other fees associated with this application to Deposit Account No. 50-1059.

Respectfully submitted,

K. Scott O'Brian

McNees Wallace & Nurick LLC

Reg. No. 42,946 100 Pine Street Phone: (717) 237-5492 P.O. Box 1166

'Application No.: 10/643,689

Dated: January 6, 2005

Fax: (717) 237-5300 Harrisburg, PA 17108-1166

PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

Complete if Known			
Application Number	10/643,689		
Filing Date	August 19, 2003		
First Named Inventor	WAND et al.		
Art Unit	3753		
Examiner Name	LEO, LEONARD R.		
Attorney Docket Number	21723-0002		

			U.S. PATENT	OCUMENTS		
Examiner	Cito	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant	
Initials *	Cite No. ¹	Number - Kind Code ² (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear	
	Α	US- 2004/0226704 A1	11-18-2004	Sella et al.		
	В	US-				
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	FOREIGN PATENT DOCUMENTS						
	Cite No. ¹	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T [®]	
		Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>)	Date MM-DD-YYYY	Applicant of Cited Document			
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Examiner Signature	Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language

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Attorney Docket No.: 21723-0002 Application No.: 10/643,689 Filed: August 19, 2003

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